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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,688	10/01/2003	Robert P. Fabinski	86625PCW	8214
Thomas H. Clo	7590 03/27/200 se	EXAMINER		
Patent Legal Sta Eastman Kodak		GEBRIEL, SELAM T		
343 State Street		ART UNIT	PAPER NUMBER	
Rochester, NY	14650-2201	2622		
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			03/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.		Applicant(s)				
Office Action Summary			10/676,68	3	FABINSKI ET AL.			
			Examiner		Art Unit			
			SELAM T.		2622			
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the	cover sheet with the	correspondence ad	idress		
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SIX (6) MONTHS from the mailing date of this compared for reply is specified above, the maximum is the to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF TH 66(a). In no ever rill apply and will cause the appli	IS COMMUNICATIO nt, however, may a reply be ti expire SIX (6) MONTHS fror cation to become ABANDON	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).	•		
Status								
1) 又	Responsive to communication(s) file	ed on <i>01 Oc</i>	ctober 2003	1				
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′=	Since this application is in condition	<i>′</i> —			osecution as to the	e merits is		
٥/١	closed in accordance with the pract		•	•				
Disnositi	on of Claims			.,,				
•	Claim(s) <u>1-13</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
		are withdraw	vii iroin cor	isideration.				
·	5) Claim(s) is/are allowed.							
-	Claim(s) <u>1-13</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[_]	Claim(s) are subject to restri	ction and/or	election re	quirement.				
Applicati	on Papers							
9)🛛	The specification is objected to by th	ne Examiner	r.					
10)🛛	The drawing(s) filed on <u><i>01 October :</i></u>	<u>2003</u> is/are:	a) acce	pted or b)⊡ objecte	d to by the Examir	ıer.		
	Applicant may not request that any obje	ection to the c	drawing(s) be	e held in abeyance. Se	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correcti	on is require	d if the drawing(s) is ol	ojected to. See 37 C	FR 1.121(d).		
11)	The oath or declaration is objected t	o by the Exa	aminer. No	te the attached Office	e Action or form P	ΓΟ-152.		
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	oate			

Art Unit: 2622

DETAILED ACTION

Claim Objections

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claim12-14 have been renumbered 11-13.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "Electronic structure and Amplifier" on, claims 4, 9 and 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

Art Unit: 2622

of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 4, 9 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim limitation "Electronic structure for preventing charge from passing to an amplifier for identifying the embedded digital signal" is not described in the specification or shown in the drawing in such a way to convey to one skilled in the art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Clarification is required to reasonably examine the claim.

Art Unit: 2622

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 6. Claims 1 5 and 9, 10, 11, 12, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Dennis (US 2002/0114526).
- 7. Regarding Claim 1, Dennis discloses an image sensor (Figure 1) comprising: (a) a substrate(Well known) having a plurality of photosensitive sites (Figure 1, Element 10) for capturing an image and a plurality of additional photosensitive sites (Figure 1, Element 20) adjacent the image capturing photosensitive sites in which there is no image capture (Page 1, Paragraph 0012 and Page 0013, Line 1-2); and (b) a digital signal embedded (Encode data, such as product codes) in one or more of the additional photosensitive sites for the purpose of identification (Page 1, Paragraph 0012 and Page 0013, Line 1-2).
- 8. Regarding Claim 2, Dennis further discloses the image sensor as in claim 1, wherein the digital signal identifies individually or in any combination particular manufacturer, lot, wafer, and/or position on the wafer during manufacture of the image sensor. (Page 1, Paragraph 002, Page 1, Paragraph 0012 and Page 0013, Line 1 2).

Art Unit: 2622

9. Regarding Claim 3, Dennis further discloses the image sensor as in claim 1 wherein the embedded digital signal includes a watermark for electronic identification of the sensor without affecting any aspect of the image captured by the plurality of sites used to capture the image (Page 1, Paragraph 0012 and Page 0013, Line 1 - 2, No image will be outputted for the non - photosensitive area or Figure 1, Element 20 of the reference therefore it does not affect any aspect of the image captured by the photosensitive area).

- 10. Regarding Claim 4, Dennis further discloses the image sensor as in claim 1 further comprising an electronic structure (Figure 1, Element 16) for preventing charge from passing to an amplifier for identifying the embedded digital signal.
- 11. Regarding Claim 5, Dennis further discloses a method for creating an image sensor (Figure 1) comprising the steps of:
- (a) providing a substrate (Well known) having a plurality of photosensitive sites (Figure 1, Element 10) for capturing an image and a plurality of additional photosensitive sites (Figure 1, Element 20) adjacent the image capturing photosensitive sites in which there is no image capture (Page 1, Paragraph 0012 and Page 0013, Line 1-2); and
 - (b) embedding a digital signal (Encode data, such as product codes) in one or

Art Unit: 2622

more of the additional photosensitive sites for the purpose of identification (Page 1, Paragraph 0012 and Page 0013, Line 1-2).

- 12. Regarding Claim 9, Dennis further discloses the method as in claim 5 further comprising providing an electronic structure (Figure 1, Element 16) for preventing charge from passing to an amplifier for identifying the embedded digital signal.
- 13. Regarding Claim 10, Dennis further discloses an image capture device (Imaging system, Page 1 and 2, Paragraph 0016) comprising:
 - (a) an image sensor (Figure 1) comprising:
- (a1) a substrate having a plurality of photosensitive sites (Figure 1, Element 10) for capturing an image and a plurality of additional photosensitive sites (Figure 1, Element 10) adjacent the image capturing photosensitive sites in which there is no image capture (Page 1, Paragraph 0012 and Page 0013, Line 1-2); and
- (a2) a digital signal embedded (Encode data, such as product codes) in one or more of the additional photosensitive sites for the purpose of identification (Page 1, Paragraph 0012 and Page 0013, Line 1-2).
- 14. Regarding Claim 11, Dennis further discloses the image capture device as in claim 10, wherein the digital signal identifies individually or in any combination particular manufacturer, lot, wafer, and/or position on the wafer during manufacture of the image sensor (Page 1, Paragraph 002, Page 1, Paragraph 0012 and Page 0013, Line 1-2).

Art Unit: 2622

captured by the photosensitive area).

15. Regarding Claim 12, Dennis further discloses the image capture device as in claim 10, wherein the embedded digital signal includes a watermark for electronic identification of the sensor without affecting any aspect of the image captured by the plurality of sites used to capture the image (Page 1, Paragraph 0012 and Page 0013, Line 1-2, No image will be outputted for the non - photosensitive area or Figure 1, Element 20 of the reference therefore it does not affect any aspect of the image

16. Regarding Claim 13, Dennis further discloses the image capture device as in claim 10 further comprising an electronic structure (Figure 1, Element 16) for preventing

Claim Rejections - 35 USC § 103

17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

charge from passing to an amplifier for identifying the embedded digital signal.

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 18. Claims 6 and 7 are rejected under U.S.C. 103(b) as being unpatentable in view of Dennis (US 2002/0114526).

Art Unit: 2622

19. Regarding claims 6, 7 and 8 as analyzed with respect to claim 5, Dennis does not disclose using a method of etching.

OFFICIAL NOTICE is taken that is well known to uses Photo-lithographic processes such as etching. Therefore it would have been obvious to one ordinary skilled in the art at the time the invention was made to provide the image sensor with apertures or opening by etching using a predefined sequence or predefined pattern provided on the images sensor in order to create a watermark identification of the sensor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SELAM T. GEBRIEL whose telephone number is (571)270-1652. The examiner can normally be reached on Monday-Thursday 7.30am-5.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vu NgocYen can be reached on 571-272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.G. Thursday, February 28, 2008

> /Ngoc-Yen T. VU/ Supervisory Patent Examiner, Art Unit 2622